

Title (en)
A valve.

Title (de)
Ventil.

Title (fr)
Soupape.

Publication
EP 0541293 A1 19930512 (EN)

Application
EP 92309918 A 19921029

Priority
GB 9123486 A 19911105

Abstract (en)
A valve (1,50) for excluding water from an air intake comprises a housing (2) defining a chamber (6), an inlet (18) to the chamber and a valve seat (7) defining an outlet which is connectable in use to the air intake. A buoyant valve member (25) is movable into engagement with the valve seat to close the outlet in the presence of liquid in the chamber and a baffle (28,51) partitioning the chamber into upstream and downstream portions (29,30) communicating with the inlet and outlet respectively, the baffle defining at least one passageway (33) providing restricted air flow between the upstream and downstream portions to create in use a pressure differential between the respective portions and further defining an aperture (32) within which the valve member normally rests. The valve member is movable into engagement with the valve seat in response to the pressure differential exceeding a threshold value when the airborne water content exceeds a threshold value. The valve is used to exclude water and spray from the air intake of a catalytic converter of an automobile. <IMAGE>

IPC 1-7
F01N 3/30; **F01N 7/08**

IPC 8 full level
F01N 3/30 (2006.01); **F01N 3/32** (2006.01); **F01N 13/08** (2010.01)

CPC (source: EP)
F01N 3/30 (2013.01); **F01N 3/32** (2013.01); **F01N 13/085** (2013.01); **Y02A 50/20** (2017.12); **Y02T 10/12** (2013.01)

Citation (search report)
• [A] US 4518363 A 19850521 - BLAND GERALD F [US], et al
• [A] US 3034290 A 19620515 - WESLEY GARY WRIGHT
• [A] FR 1279334 A 19611222 - FR D OXYCATALYSE SOC
• [A] PATENT ABSTRACTS OF JAPAN vol. 4, no. 88 (M-17)24 June 1980 & JP-A-55 046 079 (MATSUSHITA ELECTRIC WORKS) 31 March 1980

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CN113638798A

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